

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/605,452ASource: 1F60Date Processed by STIC: 2/12/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1 EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to (EFFECTIVE 12/01/03):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two. 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



IFWO

RAW SEQUENCE LISTING

DATE: 02/12/2004

PATENT APPLICATION: US/10/605,452A

TIME: 12:31:00

Input Set : D:\Amended Sequence Listing.txt Output Set: N:\CRF4\02122004\J605452A.raw

3 <110> APPLICANT: University of South Florida

5 <120> TITLE OF INVENTION: NOVEL SH2-CONTAINING INOSITOL 5'-PHOSPHATASE ISOFORM THAT

PARTNERS WITH THE GRB2 ADAPTER PROTEIN

8 <130> FILE REFERENCE: 1372.79.PR

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/605,452A

C--> 11 <141> CURRENT FILING DATE: 2003-09-30

13 <160> NUMBER OF SEQ ID NOS: 10

15 <170> SOFTWARE: PatentIn version 3.2

shown-pp1-10

ERRORED SEQUENCES

130

Dans Not Comply Carroc: Ja Diskette Needer 17 <210> SEQ ID NO: 1 18 <211> LENGTH: 4125 19 <212> TYPE: (DNA) PK | 20 <213> ORGANISM: Mouse OK This is not a PNA sequence.
22 <400> SEQUENCE: 1 22 <400> SEQUENCE: 1 24 Gly Thr Thr Cys Cys Cys Ala Cys Thr Ala Gly Thr Thr Gly Thr Thr 28 Gly Ala Ala Cys Thr Thr Thr Ala Cys Cys Thr Thr Gly Ala Ala Cys 32 Cys Thr Cys Thr Gly Cys Thr Cys Cys Cys Ala Gly Gly Gly Ala Ala 36 Gly Thr Cys Ala Thr Cys Ala Gly Gly Ala Cys Thr Cys Thr Gly Cys 40 Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr 44 Gly Cys Ala Gly Ala Gly Gly Thr Thr Gly Thr Thr Thr Gly Ala Cys 48 Cys Ala Ala Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Ala Gly

155

170

105

185

52 Gly Cys Cys Thr Thr Cys Gly Cys Cys Cys Ala Cys Gly Ala Cys Cys 120 56 Thr Cys Ala Gly Gly Thr Gly Cys Cys Cys Gly Gly Ala Gly Ala Gly

60 Gly Cys Cys Ala Gly Thr Cys Cys Cys Ala Thr Cys Ala Cys Cys Ala

64 Thr Gly Gly Thr Thr Gly Cys Cys Ala Ala Ala Cys Thr Cys Ala Gly

68 Cys Cys Ala Ala Thr Thr Gly Ala Cys Ala Ala Gly Thr Cys Thr Gly

72 Cys Thr Gly Thr Cys Thr Thr Cys Cys Ala Thr Thr Gly Ala Ala Gly 200

135

150

Due to size, only this page of Sequence I shown. This is the only page showing an evon.

DATE: 02/12/2004

TIME: 12:31:00

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

```
1056 Cys Cys Thr Cys Thr Thr Cys Thr Thr Cys Cys Cys Ala Ala Gly
         3935
                             3940
1060 Cys Thr Cys Thr Gly Gly Gly Thr Gly Cys Ala
                                                       Cys Cys Cys
         3950
                             3955
                                                  3960
1064 Thr Gly Thr Gly Thr Cys Cys Thr Thr Gly Gly Thr
         3965
                             3970
                                                  3975
1068 Cys Ala Gly Gly Ala Gly Ala Cys Thr Ala Gly Gly
                                                       Gly Thr Thr
1069
         3980
                             3985
                                                  3990
1072 Gly Thr Gly Ala Thr Ala Thr Cys Thr Thr Thr Thr Cys Thr Thr
         3995
                             4000
                                                  4005
1076 Gly Thr Cys Thr Thr Gly Cys Thr Thr Thr Thr Gly Ala Thr
         4010
                             4015
                                                  4020
1080 Ala Thr Ala Thr Cys Ala Gly Gly Ala Thr Thr Ala Ala Thr Gly
         4025
                             4030 '
1081
                                                  4035
1084 Thr Ala Gly Gly Ala Ala Ala Cys Cys Ala Gly Ala Cys Cys Thr
         4040
                             4045
                                                  4050
1085
1088 Ala Gly Ala Thr Thr Ala Thr Thr Cys Ala Gly Gly Ala Gly. Ala
         4055
1089
                             4060
                                                  4065
1092 Gly Thr Ala Gly Gly Thr Ala Thr Ala Thr Cys Cys Cys Thr
         4070
1093
                             4075
                                                  4080
1096 Gly Thr Gly Thr Thr Thr Cys Cys Cys Ala Gly Thr Cys Thr Gly
         4085
                             4090
                                                  4095
1100 Ala Gly Thr Gly Ala Cys Cys Ala Ala Thr Ala Ala Ala Thr
         4100
1101
                             4105
                                                  4110
1104 Thr Gly Thr Gly Cys Cys Thr Thr Thr Cys Thr Ala
1105
        4115
                             4120
1108 <210> SEQ ID NO: 2
1109 <211> LENGTH: 394
                              only this page of Seg. 2 shown
1110 <212> TYPE: (DNA) / (
1111 <213> ORGANISM: Mouse
1113 <400> SEQUENCE: 2
1115 Gly Thr Thr Cys Cys Cys Ala Cys Thr Ala Gly Thr Thr Gly Thr Thr
1119 Gly Ala Ala Cys Thr Thr Thr Ala Cys Cys Thr Thr Gly Ala Ala Cys
1120
1123 Cys Thr Cys Thr Gly Cys Thr Cys Cys Cys Ala Gly Gly Ala Ala
1127 Gly Thr Cys Ala Thr Cys Ala Gly Gly Ala Cys Thr Cys Thr Gly Cys
1128
         50
1131 Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr
                        70
1135 Gly Cys Ala Gly Ala Gly Gly Thr Thr Gly Thr Thr Thr Gly Ala Cys
1139 Cys Ala Ala Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Ala Gly
                100
                                    105
1143 Gly Cys Cys Thr Thr Cys Gly Cys Cys Cys Ala Cys Gly Ala Cys Cys
            115
                                120
                                                    125
1147 Thr Cys Ala Gly Gly Thr Gly Cys Cys Cys Gly Gly Ala Gly Ala Gly
1148
        130
                            135
                                                140
```

TIME: 12:31:01

RAW SEQUENCE LISTING PATENT APPLICATION: US/10/605,452A Input Set: D:\Amended Sequence Listing.txt Output Set: N:\CRF4\02122004\J605452A.raw The Thr Cys Ala Gly Gly Ala Gly Ala Gly 3005

2131 Thr Thr Ala Thr Thr Cys Ala Gly Gly Ala Gly Ala Gly Thr Ala 2135 Gly Gly Thr Ala Thr Ala Thr Cys Cys Cys Thr Gly Thr Gly 2139 Thr Thr Thr Cys Cys Cys Ala Gly Thr Cys Thr Gly Ala Gly Thr 2143 Gly Ala Cys Cys Ala Ala Thr Ala Ala Ala Ala Thr Thr Gly Thr 2147 Gly Cys Cys Thr Thr Thr Cys Thr Ala 2151 <210> SEQ ID NO: 3 2152 <211> LENGTH: 4147 2153 <212> TYPE: DNA 2154 <213> ORGANISM: Human 2156 <400> SEQUENCE: 3 2158 Cys Gly Cys Cys Cys Ala Cys Thr Ala Ala Thr Cys Cys Thr Thr Gly 2159 1 2162 Ala Thr Gly Thr Thr Cys Ala Cys Cys Thr Thr Gly Thr Cys Cys 2166 Cys Thr Gly Cys Cys Cys Cys Ala Gly Ala Gly Ala Ala Gly Thr 2170 Cys Ala Thr Cys Cys Gly Gly Ala Cys Cys Cys Thr Cys Cys Cys Ala 2174 Thr Cys Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys Thr Gly Cys 2175 65 2178 Ala Gly Ala Gly Gly Thr Thr Ala Thr Thr Gly Ala Cys Cys Ala 2182 Gly Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Gly Gly Cys 2186 Cys Thr Cys Cys Gly Thr Cys Cys Ala Cys Gly Thr Cys Cys Thr Cys 2190 Ala Gly Gly Thr Thr Cys Cys Thr Gly Gly Thr Gly Ala Gly Gly Cys 2194 Cys Ala Ala Thr Cys Cys Cys Ala Thr Cys Ala Ala Cys Ala Thr Gly 2195 145 2198 Gly Thr Gly Thr Cys Cys Ala Ala Gly Cys Thr Cys Ala Gly Cys Cys 2202 Ala Ala Cys Thr Gly Ala Cys Ala Ala Gly Cys Cys Thr Gly Thr Thr 2206 Gly Thr Cys Ala Thr Cys Cys Ala Thr Thr Gly Ala Ala Gly Ala Cys · 195 2210 Ala Ala Gly Gly Thr Cys Ala Ala Gly Gly Cys Cys Thr Thr Gly Cys 2214 Thr Gly Cys Ala Cys Gly Ala Gly Gly Gly Thr Cys Cys Thr Gly Ala 2218 Gly Thr Cys Thr Cys Cys Gly Cys Ala Cys Cys Gly Gly Cys Cys 2222 Thr Cys Cys Cys Thr Thr Ala Thr Cys Cys Cys Thr Cys Cys Ala Gly

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

```
3206 Thr Gly Ala Thr Gly Thr Cys Thr Thr Thr Cys Cys Thr Thr Ala
         3995
                              4000
3210 Thr Gly Thr Thr Gly Cys Thr Thr Thr Thr Thr Cys Ala Ala Cys
         4010
                              4015
                                                   4020
3214 Ala Thr Ala Gly Cys Ala Gly Ala Ala Thr Thr Ala
3215
         4025
                              4030
                                                   4035
3218 Thr Ala Gly Gly Gly Ala Gly Cys Thr Ala Ala Ala
                                                       Thr Cys Cys
3219
         4040
                              4045
                                                   4050
3222 Ala Gly
             Thr Gly Gly Thr Gly Thr Gly Thr Gly Ala Ala
         4055
                              4060
                                                   4065
3226 Thr Gly Cys Ala Gly Ala Ala Gly Gly Gly Ala Ala Thr Gly Cys
         4070
                              4075
                                                   4080
3230 Ala Cys Cys Cys Cys Ala Cys Ala Thr Thr Cys Cys Cys Ala Thr
         4085
                              4090
3231
                                                   4095
3234 Gly Ala Thr Gly Gly Ala Ala Gly Thr Cys Thr Gly Cys Gly Thr
         4100
                              4105
                                                   4110
3238 Ala Ala Cys Cys Ala Ala Thr Ala Ala Ala Thr Thr Gly Thr Gly
         4115
                              4120
3239
                                                   4125
3242 Cys Cys Thr Thr Thr Cys Thr Cys Ala Cys Thr Cys Ala Ala Ala
3243
        4130
                              4135
                                                   4140
3246 Ala Cys Cys Cys
3247
         4145
3250 <210> SEQ ID NO: 4
3251 <211> LENGTH: 4570
3252 <212> TYPE:(DNA) (K)
3253 <213> ORGANISM: Mouse
3255 <400> SEQUENCE: 4
3257 Ala Ala Gly Cys Thr Gly Ala Thr Gly Thr Cys Ala Cys Thr Gly Cys
3261 Thr Cys Thr Gly Cys Ala Ala Gly Gly Ala Gly Cys Thr Cys Cys Ala
                20
                                     25
3265 Thr Gly Gly Gly Thr Ala Ala Cys Gly Gly Ala Gly Ala Gly Cys Cys
3269 Cys Thr Gly Ala Gly Ala Gly Ala Gly Gly Gly Gly Thr Gly Gly Gly
3273 Gly Gly Ala Gly Cys Thr Thr Cys Ala Thr Gly Gly Gly Thr Ala Ala
3277 Thr Gly Gly Gly Ala Gly Cys Cys Cys Cys Thr Ala Cys Cys Ala
3278
                    85
                                        90
3281 Cys Cys Cys Ala Gly Gly Ala Gly Gly Ala Thr Gly Gly Cys Cys Ala
                100
                                    105
3285 Cys Ala Gly Cys Ala Ala Gly Ala Gly Ala Ala Ala Gly Thr Gly Cys
            115
                                120
3289 Thr Cys Ala Thr Thr Ala Gly Ala Gly Thr Gly Ala Cys Cys Thr
        130
                            135
3293 Gly Gly Gly Thr Cys Thr Cys Cys Thr Cys Thr Cys Thr Gly Thr Cys
                        150
                                            155
3297 Cys Ala Gly Ala Thr Gly Thr Cys Thr Cys Thr Gly Cys Ala Gly Cys
3298
                    165
                                        170
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

DATE: 02/12/2004 TIME: 12:31:01

```
3301 Ala Cys Thr Cys Ala Cys Ala Gly Thr Ala Ala Thr Thr Gly Gly Cys
                180
                                    185
3305 Cys Cys Ala Gly Gly Thr Gly Gly Ala Gly Thr Cys Thr Gly Gly Ala
           195
                                200
3309 Ala Thr Gly Thr Thr Cys Cys Ala Gly Gly Cys Thr Thr Gly Thr Thr
     210
                            215
                                                220
3313 Gly Gly Ala Ala Gly Cys Thr Cys Thr Thr Gly Cys Thr Cys Thr Cys
3314 225
                        230
                                            235
3317 Ala Thr Ala Gly Ala Ala Thr Cys Thr Gly Ala Gly Cys Thr Cys Thr
                                        250
                    245
3321 Ala Ala Cys Thr Gly Ala Gly Cys Thr Gly Gly Gly Ala Ala Ala Gly
                                    265
3325 Thr Thr Gly Ala Thr Cys Ala Thr Thr Thr Gly Thr Thr Thr Ala Thr
            275
                                280
3329 Thr Cys Cys Thr Thr Thr Ala Gly Gly Gly Thr Ala Thr Thr Gly
3333 Gly Gly Gly Gly Gly Cys Ala Cys Gly Gly Ala Thr Gly Thr Ala
                        310
                                            315
3337 Thr Gly Cys Ala Thr Gly Cys Thr Gly Gly Thr Ala Thr Gly Thr Ala
                    325
                                        330
3341 Thr Gly Cys Ala Thr Gly Cys Thr Gly Gly Gly Gly Ala Thr Gly Thr
                                    345
3345 Ala Gly Gly Gly Cys Cys Thr Cys Ala Thr Gly Thr Gly Thr Gly Cys
            355
                                360
3349 Thr Ala Ala Ala Thr Ala Cys Ala Thr Gly Thr Gly Cys Cys Thr Ala
        370
                            375
                                                380
3353 Thr Thr Cys Thr Gly Thr Ala Ala Thr Gly Thr Thr Thr Cys Thr
3354 385
                        390
                                            395
3357 Thr Gly Thr Thr Thr Gly Thr Thr Thr Thr Ala Ala Cys Thr Cys
                   405
                                        410
3361 Ala Ala Ala Thr Thr Ala Ala Thr Thr Ala Gly Ala Gly Cys Ala
               420
                                    425 ...
3365 Gly Thr Thr Thr Cys Thr Cys Thr Gly Thr Thr Thr Ala Cys Cys Ala
            435
                                440
3369 Gly Cys Cys Cys Gly Gly Cys Cys
        450
3373 <210> SEQ ID NO: 5
3374 <211> LENGTH: 938
3375 <212> TYPE: DNA PRT
3376 <213> ORGANISM: Mouse
3378 <400> SEQUENCE: 5
3380 Ala Ala Ala Thr Cys Ala Cys Cys Ala Cys Ala Cys Gly Gly Cys Cys
3384 Ala Ala Thr Ala Cys Thr Cys Cys Cys Cys Cys Cys Ala Ala Cys
                20
                                    25
3388 Thr Cys Cys Thr Cys Cys Cys Ala Ala Ala Thr Cys Cys Cys Cys Thr
                                40
3392 Cys Thr Ala Cys Cys Cys Ala Cys Thr Cys Ala Ala Ala Thr Thr Cys
```

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

```
3592 Ala Cys Ala Gly Gly Ala Thr Thr Cys Ala Cys Cys Ala Cys Thr Gly
        850
                             855
3596 Gly Gly Gly Thr Gly Thr Gly Gly Cys Cys Thr Ala Thr Cys Thr Gly
                        870
                                             875
3600 Cys Thr Gly Thr Thr Ala Gly Gly Ala Cys Cys Thr Gly Ala Ala Thr
                     885
                                         890
3604 Thr Gly Cys Cys Thr Gly Gly Ala Gly Thr Gly Thr Thr Thr Cys Thr
                 900
                                     905
3608 Ala Gly Thr Thr Cys Cys Cys Ala Cys Thr Ala Gly Thr Thr Gly Thr
            915
                                 920
3612 Thr Gly Ala Ala Cys Thr Thr Thr Ala Cys
         930
3616 <210> SEQ ID NO: 6
3617 <211> LENGTH: 986 PRT 3618 <212> TYPE: DNA
3619 <213> ORGANISM: Mouse
3621 <400> SEQUENCE: 6
3623 Gly Cys Ala Asn Thr Cys Thr Gly Ala Gly Gly Ala Cys Thr Cys Thr
3627 Gly Cys Cys Ala Thr Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Cys
                20
                                     25
3631 Thr Gly Cys Ala Gly Ala Gly Gly Thr Thr Gly Thr Thr Thr Gly Ala
3635 Cys Cys Ala Ala Cys Ala Gly Cys Thr Cys Thr Cys Cys Cys Cys Ala
                             55
3639 Gly Gly Cys Cys Thr Thr Cys Gly Cys Cys Cys Ala Cys Gly Ala Cys
                         70
3643 Cys Thr Cys Ala Gly Gly Thr Ala Ala Gly Gly Gly Gly Thr Thr
                     85
3647 Gly Gly Ala Thr Thr Gly Gly Ala Ala Ala Gly Ala Thr Gly Cys
3648 7 100
                                     105
3651 Ala Ala Thr Thr Gly Cys Thr Ala Thr Ala Gly Gly Ala Gly Gly Gly
                                120
3655 Ala Cys Thr Cys Thr Gly Ala Ala Gly Gly Cys Ala Gly Ala Cys Ala
        130
                             135
3659 Gly Ala Cys Gly Cys Ala Cys Cys Gly Cys Cys Thr Cys Cys Thr Cys
                         150
3663 Ala Cys Gly Thr Thr Gly Gly Cys Thr Ala Gly Thr Cys Thr Ala Ala
                                         170
                     165
3667 Thr Ala Thr Ala Ala Ala Cys Ala Thr Cys Gly Cys Gly Gly Thr Gly
                180
                                     185
3671 Gly Ala Thr Gly Gly Thr Gly Ala Gly Gly Ala Thr Ala Gly Ala Cys
                                 200
3675 Thr Cys Cys Ala Thr Gly Cys Cys Cys Thr Thr Thr Thr Gly Thr Gly
        210
                             215
                                                 220
3679 Ala Ala Gly Gly Cys Ala Thr Thr Thr Cys Cys Thr Gly Gly Cys Ala
                        230
                                             235
3683 Thr Cys Ala Gly Cys Thr Cys Cys Thr Gly Ala Cys Thr Thr Cys Ala
                     245
                                         250
                                                             255
```

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

DATE: 02/12/2004 TIME: 12:31:01

```
3784
                     645
                                         650
                                                             655
3787 Ala Asn Cys Cys Ala Gly Gly Cys Thr Thr Cys Cys Cys Ala Asn Gly
                 660
                                     665
3791 Thr Thr Thr Thr Thr Thr Thr Thr Cys Ala Cys Ala Ala Ala Ala
             675
                                 680
3795 Cys Cys Cys Thr Thr Thr Thr Thr Ala Ala Ala Cys Cys Cys
                             695
3799 Thr Asn Thr Cys Thr Ala Ala Thr Cys Cys Asn Thr Ala Cys Thr Cys
3800 705
                         710
                                            715
3803 Asn Thr Thr Asn Asn Asn Cys Cys Asn Thr Cys Ala Asn Thr Ala Cys
                    725
                                         730
3807 Cys Ala Thr Asn Asn Cys Ala Asn Asn Thr Cys Cys Cys Thr Cys Thr
                740
                                     745
3811 Thr Thr Cys Asn Cys Cys Thr Asn Cys Asn Asn Thr Cys Thr Ala Cys
             755
                                 760
3812
3815 Thr Thr Thr Thr Asn Thr Asn Cys Cys Asn Cys Thr Asn Asn Thr Gly
                             775
3819 Asn Asn Cys Asn Ala Thr Thr Ala Thr Thr Thr Thr Cys Cys Thr Cys
3820 785
                         790
                                             795
3823 Thr Thr Cys Asn Cys Thr Thr Asn Thr Gly Thr Thr Ala Thr Ala Thr
                    805
                                         810
3827 Asn Ala Asn Ala Thr Ala Ala Thr Thr Cys Thr Cys Cys Cys Ala Ala
                820
                                     825
3831 Cys Cys Cys Cys Thr Cys Ala Cys Cys Cys Cys Thr Cys Thr Thr Thr
             835
                                 840
3835 Ala Thr Thr Cys Thr Asn Ala Asn Asn Asn Asn Ala Thr Thr
        850
                            855
3839 Thr Gly Asn Cys Ala Thr Cys Thr Gly Cys Cys Thr Cys Cys Asn Asn
3840 865
                         870
                                             875
3843 Thr Thr Ala Asn Asn Asn Thr Thr Asn Asn Thr Cys Cys Thr Cys Asn
                 885
                                     7 890
3847 Cys Thr Thr Cys Ala Asn Cys Thr Asn Cys Thr Thr Cys Cys Ala Thr
                                     905
                900
3851 Thr Asn Gly Gly Thr Thr Gly Thr Asn Ala Cys Thr Cys Asn Ala Asn
                                 920
             915
                                                     925
3855 Asn Thr Thr Thr Asn Cys Thr Asn Thr Cys Thr Cys Thr Thr Ala Asn
3859 Asn Asn Cys Thr Thr Cys Asn Cys Gly Asn Asn Asn Asn Thr Thr Cys
                         950
                                            955
3863 Thr Cys Cys Ala Asn Thr Cys Cys Asn Cys Thr Asn Asn Cys Cys Thr
                    965
                                         970
3867 Asn Cys Asn Cys Cys Ala Asn Cys Cys
3868
                980
3871 <210> SEQ ID NO: 7
3872 <211> LENGTH: 1001
3873 <212> TYPE:(DNA) PRT
3874 <213> ORGANISM: Mouse
3876 <400> SEQUENCE: 7
3878 Gly Gly Gly Ala Gly Asn Asn Asn Ala Ala Thr Thr Ala Gly Asn
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TIME: 12:31:01

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

```
4075 785
                        79Ò
                                                                 800
                                             795
4078 Gly Ala Ala Thr Ala Thr Ala Gly Gly Gly Thr Gly Thr Thr Ala
                    805
                                        810
4082 Thr Cys Ala Gly Gly Cys Cys Ala Gly Gly Gly Thr Gly Gly Ala
                820
                                    825
4086 Ala Ala Ala Gly Cys Cys Thr Gly Gly Gly Ala Ala Thr Ala Gly Cys
                                840
4090 Gly Ala Gly Cys Cys Ala Gly Ala Thr Ala Gly Cys Cys Thr Cys Ala
        850
                            855
                                                860
4094 Cys Cys Cys Gly Gly Gly Ala Cys Ala Thr Thr Gly Ala Cys Cys Ala
4095 865
                        870
                                            875
4098 Thr Cys Cys Cys Ala Gly Cys Cys Ala Thr Gly Thr Ala Gly Ala Thr
                    885
                                        890
4102 Ala Ala Ala Thr Cys Ala Gly Ala Gly Thr Thr Gly Ala Cys Ala Thr
4103
                 900
4106 Cys Ala Cys Cys Ala Ala Ala Gly Cys Cys Ala Gly Cys Cys Ala Cys
            915
                                 920
4110 Thr Gly Ala Cys Thr Gly Cys Ala Thr Gly Thr Cys Thr Thr Ala Thr
4111
        930
                            935
                                                940
4114 Gly Cys Thr Cys Thr Gly Ala Ala Gly Gly Thr Gly Ala Ala Gly Thr
                        950
                                            955
4118 Cys Ala Gly Ala Gly Thr Cys Cys Cys Thr Gly Gly Gly Cys Ala Thr
                    965
                                        970
4122 Thr Cys Cys Thr Cys Ala Gly Ala Ala Ala Gly Cys Thr Cys Cys
                980
                                    985
4126 Cys Ala Ala Ala Gly Gly Ala Asn Gly
4127
            995
4130 <210> SEQ ID NO: 8
4131 <211> LENGTH: 6498
4132 <212> TYPE:(DNA)
4133 <213> ORGANISM: Mouse
4135 <400> SEQUENCE: 8
4137 Gly Thr Ala Ala Cys Gly Gly Ala Gly Ala Gly Cys Cys Cys Thr Gly
4141 Ala Gly Ala Gly Ala Gly Gly Gly Thr Gly Gly Gly Gly Ala
4145 Gly Cys Thr Thr Cys Ala Thr Gly Gly Gly Thr Ala Ala Thr Gly Gly
4149 Gly Ala Gly Cys Cys Cys Thr Ala Cys Cys Cys Ala Cys Cys
                            55
4153 Ala Gly Gly Ala Gly Gly Ala Thr Gly Gly Cys Cys Ala Cys Ala Gly
4157 Cys Ala Ala Gly Ala Gly Ala Ala Gly Thr Gly Cys Thr Cys Ala
4161 Thr Thr Ala Gly Ala Gly Thr Gly Ala Cys Cys Cys Thr Gly Gly Gly
                100
                                    105
4165 Thr Cys Thr Cys Cys Thr Cys Thr Cys Thr Gly Thr Cys Cys Ala Gly
4166
            115
                                120
4169 Ala Thr Gly Thr Cys Thr Cys Thr Gly Cys Ala Gly Cys Ala Cys Thr
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/605,452A

DATE: 02/12/2004 TIME: 12:31:01

```
5837 Gly Cys Cys Thr Gly Gly Ala Gly Thr Gly Thr Thr Thr Cys Thr
          6440
                               6445
 5841 Ala Gly Thr Thr Cys Cys Cys Ala Cys Thr Ala Gly Thr Thr Gly
          6455
                               6460
                                                    6465
 5845 Thr Thr Gly Ala Ala Cys Thr Thr Thr Ala Cys Cys Thr Thr Gly
                               6475
 5846
          6470
                                                   6480
 5849 Ala Ala Cys Cys Thr Cys Thr Gly Cys Thr Cys Cys Cys Ala Gly
> 5850
          6485
                               6490
                                                    6495
 5853 <210> SEQ ID NO: 9
 5854 <211> LENGTH: 361
5855 <212> TYPE: DNA
 5856 <213> ORGANISM: Human
 5858 <400> SEQUENCE: 9
 5860 Ala Ala Thr Thr Thr Cys Thr Ala Cys Ala Gly Gly Cys Thr Ala
 5864 Thr Ala Gly Ala Gly Thr Gly Cys Ala Gly Thr Thr Thr Gly Gly Cys
 5868 Thr Ala Ala Gly Cys Ala Ala Ala Cys Cys Thr Ala Gly Gly
                                  40
 5872 Thr Ala Cys Ala Gly Thr Cys Ala Gly Gly Gly Ala Cys Thr Ala Cys
                              55
 5876 Ala Cys Ala Ala Thr Thr Cys Cys Ala Gly Thr Thr Cys Gly Cys Thr
 5880 Gly Thr Gly Gly Gly Thr Thr Gly Gly Gly Ala Ala Gly Gly Gly Ala
                      85
 5884 Thr Gly Gly Gly Thr Gly Gly Gly Cys Cys Ala Gly Thr Gly Cys Thr
                  100
                                      10.5
 5888 Gly Gly Cys Ala Ala Gly Cys Cys Thr Thr Gly Ala Thr Cys Thr Thr
             115
                                  120
                                                      125
 5892 Thr Gly Cys Cys Cys Gly Gly Cys Thr Thr Gly Thr Cys Cys Thr
          130
                             135
                                                  140
 5896 Thr Cys Thr Gly Gly Gly Ala Gly Ala Ala Thr Thr Ala Cys Cys
                          150
                                             155
 5900 Thr Gly Cys Thr Thr Cys Thr Gly Cys Thr Gly Gly Ala Cys Thr Gly
 5904 Ala Gly Gly Gly Thr Gly Cys Cys Cys Thr Cys Ala Thr Cys Thr Cys
                  180
 5908 Thr Gly Gly Cys Thr Ala Gly Ala Gly Cys Cys Cys Gly Thr Gly Cys
              195
                                  200
 5912 Thr Gly Cys Cys Ala Thr Gly Gly Ala Ala Gly Ala Cys Thr Cys Thr
          210
                              215
 5916 Thr Thr Cys Cys Gly Gly Thr Gly Cys Cys Cys Ala Cys Thr Ala Ala
                          230
                                              235
 5920 Ala Thr Cys Cys Thr Thr Gly Ala Thr Gly Thr Thr Cys Ala Cys Cys
                     245
                                          250
 5924 Thr Thr Gly Thr Cys Cys Cys Cys Thr Gly Cys Cys Cys Cys Ala
                 2.60
                                      265
 5928 Gly Ala Gly Ala Ala Gly Thr Cys Ala Thr Cys Cys Gly Gly Ala Cys
              275
                                  280
```

```
PATENT APPLICATION: US/10/605,452A
                                                          TIME: 12:31:01
                Input Set : D:\Amended Sequence Listing.txt
                Output Set: N:\CRF4\02122004\J605452A.raw
5932 Cys Cys Thr Cys Cys Cys Ala Thr Cys Cys Cys Thr Gly Gly Ala Gly
         290
                             295
                                                 300
5936 Thr Cys Thr Cys Thr Gly Cys Ala Gly Ala Gly Gly Thr Thr Ala Thr
                         310
                                             315
5940 Thr Thr Gly Ala Cys Cys Ala Gly Cys Ala Gly Cys Thr Cys Thr Cys
                     325
                                         330
5944 Cys Cys Cys Gly Gly Gly Cys Cys Thr Cys Cys Gly Thr Cys Cys Ala
                340
                                     345
5948 Cys Gly Thr Cys Cys Thr Cys Ala Gly
5949
             355
5952 <210> SEQ ID NO: 10
5953 <211> LENGTH: 279
5954 <212> TYPE: DNA PRT
5955 <213> ORGANISM: Human
5957 <400> SEQUENCE: 10
5959 Gly Thr Ala Ala Thr Gly Gly Cys Thr Gly Gly Cys Cys Cys Ala Cys
5963 Gly Gly Gly Gly Cys Gly Gly Cys Ala Gly Gly Thr Gly Gly
                                     25
5967 Gly Gly Cys Gly Gly Cys Cys Ala Cys Cys Ala Gly Gly Thr Gly
            35
5971 Ala Gly Ala Gly Ala Ala Ala Cys Ala Gly Cys Thr Cys Ala Thr Gly
5975 Ala Gly Ala Gly Cys Gly Ala Cys Cys Thr Cys Thr Gly Cys Cys Thr
5979 Cys Thr Gly Cys Cys Thr Gly Gly Cys Thr Gly Ala Ala Cys Ala Ala
5983 Ala Thr Gly Cys Cys Thr Cys Thr Gly Cys Cys Gly Cys Ala Cys Thr
                100
                                     105 \, \cdot
                                                         110
5987 Cys Ala Cys Ala Ala Thr Ala Ala Thr Thr Gly Ala Gly Thr Gly Gly
                   7 120
5988 115
                                                    -125
5991 Thr Gly Ala Gly Cys Ala Cys Ala Gly Cys Thr Thr Gly Gly Ala Ala
                             135
5995 Ala Thr Cys Thr Cys Thr Gly Thr Gly Gly Thr Thr Gly Thr Thr
                         150
                                             155
5999 Gly Gly Ala Gly Gly Thr Cys Thr Thr Gly Thr Thr Ala Thr Cys Ala
                     165
6003 Thr Gly Gly Ala Ala Thr Thr Thr Gly Ala Ala Cys Ala Gly Thr Ala
6004
                 180
                                     185
6007 Gly Cys Thr Thr Gly Thr Gly Thr Gly Thr Gly Cys Thr Gly Cys Ala
            195
                                 200
                                                     205
6011 Gly Cys Thr Thr Thr Thr Ala Cys Ala Ala Cys Thr Ala Ala Ala
                             215
6015 Gly Thr Thr Ala Ala Thr Thr Gly Gly Ala Gly Gly Cys Cys Ala Gly
                         230
                                             235
6019 Thr Thr Gly Cys Thr Cys Thr Gly Gly Gly Ala Ala Gly Cys Gly Gly
                     245
                                         250
6023 Ala Thr Gly Gly Gly Gly Thr Gly Gly Gly Ala Gly Gly Ala Cys Ala
6024
                 260
                                     265
```

RAW SEQUENCE LISTING

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/605,452A

DATE: 02/12/2004 TIME:, 12:31:02

Input Set: D:\Amended Sequence Listing.txt
Output Set: N:\CRF4\02122004\J605452A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:1105 M:301 E: (44) No Sequence Data was Shown, SEQ ID:1 L:1105 M:252 E: No. of Seq. differs, <211> LENGTH:Input:4125 Found:0 SEQ:1 L:2148 M:301 E: (44) No Sequence Data was Shown, SEQ ID:2 L:2148 M:252 E: No. of Seq. differs, <211> LENGTH:Input:3942 Found:0 SEQ:2 L:3247 M:301 E: (44) No Sequence Data was Shown, SEQ ID:3 L:3247 M:252 E: No. of Seq. differs, <211> LENGTH:Input:4147 Found:0 SEQ:3 L:3370 M:301 E: (44) No Sequence Data was Shown, SEQ ID:4 L:3370 M:252 E: No. of Seq. differs, <211> LENGTH:Input:457 Found:0 SEQ:4 L:3613 M:301 E: (44) No Sequence Data was Shown, SEQ ID:5 L:3613 M:252 E: No. of Seq. differs, <211> LENGTH:Input:938 Found:0 SEQ:5 L:3868 M:301 E: (44) No Sequence Data was Shown, SEQ ID:6 L:3868 M:252 E: No. of Seq. differs, <211> LENGTH:Input:986 Found:0 SEQ:6 L:4127 M:301 E: (44) No Sequence Data was Shown, SEQ ID:7 L:4127 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1001 Found:0 SEQ:7 L:5850 M:301 E: (44) No Sequence Data was Shown, SEQ ID:8 L:5850 M:252 E: No. of Seq. differs, <211> LENGTH:Input:6498 Found:0 SEQ:8 L:5949 M:301 E: (44) No Sequence Data was Shown, SEQ ID:9 L:5949 M:252 E: No. of Seq. differs, <211> LENGTH:Input:361 Found:0 SEQ:9 L:6028 M:301 E: (44) No Sequence Data was Shown, SEQ ID:10

L:6028 M:252 E: No. of Seq. differs, <211> LENGTH:Input:279 Found:0 SEO:10